

Amendments to the Specification

Please delete the paragraph that begins at page 1, line 1, which consists of “Description”.

Please insert the following new paragraphs prior to the paragraph that begins at page 1, line 5:

This application claims the benefit of European Patent Authority; 03002483.0, filed February 5, 2003.

Field of the Invention

Please replace the paragraph that begins at page 1, line 5 which begins with the words “The present invention relates” with the following paragraph:

The present invention relates to the field of wireless transmission, and more particularly to the detection of transmitted signals.

Please insert the following new paragraph prior to the paragraph that begins at page 1, line 13:

Background

Please delete the paragraph that starts at page 5, line 29 which begins with the words “The invention achieves”.

Please delete the paragraph that starts at page 5, line 32 which begins with the words “In addition, the”.

Please delete the paragraph that starts at page 5, line 35 which begins with the words "Further refinements of".

Please insert the following new paragraph prior to the paragraph that begins at page 6, line 1:

Summary

Please replace the paragraph that starts at page 6, line 1, which begins with the words "A fundamental concept" with the following paragraph:

In accordance with the present invention, transmission path detection is accomplished using threshold settings within a peak value detection device, a data transmission path profile determination device and, in one embodiment, a shadow transmission path filter. The thresholds in the peak detection device and data transmission path profile determination device are adapted to the noise environment. The threshold in the filter is established to suppress secondary maxima resulting from a correlation filter used to generate a delay power profile.

Please replace the paragraph that starts at page 7, line 4, which begins with the words "The inventive apparatus" with the following paragraph:

In one embodiment of the invention, an apparatus for receiving a data stream which can be transmitted via at least one data transmission path essentially has:

- a) a data stream receiver for receiving the data stream;
- b) a power delay profile determination unit for determining at least one power delay profile;
- c) a peak value detection device for detecting at least one peak value in the power delay profile;

- d) a data transmission path profile determination device for determining a data transmission path profile for the at least one data transmission path;
- e) a filtering device for suppressing shadow path signals and for outputting a finger positioning signal; and
- f) a setting device for setting data transmission paths, which are associated with a data transmission, on the basis of the finger positioning signal.

Please delete the paragraph that begins at page 7, line 24, which begins with the words “The subclaims contain”.

Please replace the paragraph that starts at page 8, line 29, which begins with the words “The inventive method” with the following paragraph:

In accordance with one embodiment of the present invention, a method for receiving a data stream transmitted via at least one data transmission path comprises the following steps:

- a) receiving the data stream;
- b) determining at least one power delay profile;
- c) detecting at least one peak value in the determined power delay profile;
- d) determining a data transmission path profile;
- e) suppressing shadow transmission path signals; and
- f) setting data transmission paths in a receiver.

Please replace the paragraph that starts at page 9, line 24, which begins with the words “Advantageously, the inventive method” with the following paragraph:

Advantageously, a first threshold value may be set on the basis of a noise environment.

Please replace the paragraph that starts at page 9, line 28, which begins with the words “Another advantage is” with the following paragraph:

Another advantage is that a first threshold value may be set on the basis of a mean value, a variance and/or a standard deviation for noise peak values.

Please insert the following new paragraph prior to the paragraph that begins at page 11, line 24:

Brief Description of the Drawings

Please insert the following new paragraph prior to the paragraph that begins at page 12, line 27:

Detailed Description

Please delete the all of the paragraphs of pages 42-44, which begins with “List of reference symbols”.